Record Name: Acreage Record Code: P11

	Record Co	de: P11			Release Date	: 2/28/2013	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	<u>Calculations</u>	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
ection 1: Liability Calculat		<u>Name</u>	<u>INUITIDEI</u>	Number	Format	Rounding	<u>Rules</u>
·	- Approved Vield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal	46	999999999999999999999999999999999999999	If Unit of Measure equals Pounds "LBS", then round to whole number.  If Unit of Measure equals Tons "TONS", then round to 2 decimals.  Otherwise, round to 1 decimal.	Common Crop Insurance Policy definition 'production guarantee (per acre)'.  For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have beeif TA wasn't selected without the effects to cup
		Coverage Level Percent	P14	34	9.9999	None	or floors)  For APH Trend the Coverage Level Percent in this section is ALWAYS the chosen coverage level and NOT the Effective Coverage Level.
Guarantee Per Acre Amount	=	Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number.  If Unit of Measure equals Tons "TONS", then round to 2 decimals.  Otherwise, round to 1 decimals.	
/25/2013		Guarantee Adjustment Factor Page 1	P11 of 68	75	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".

Record Name: Acreage

Reinsurance Year: 2013

Version: Approved

Record Code: P11 Release Date: 2/28/2013 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field Field **Calculations** <u>Name</u> Number Number **Format** Rounding Rules When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. If result is based on Contract Price for specialty type Corn, Soybeans or Barley; round to nearest one hundredth cent (\$9.9999).

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0018 Rice 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Number Rules Name Number **Format** Rounding When Commodity Code equals Canola, 9999.9999 Price Election Amount Internal "0015", Rice, "0018", Sunflowers, "0078"; round to nearest onetenth cent [\$9.999]. If result is based on Contract Price for specialty type Canola; round to nearest one hundredth cent (\$9.9999). When Commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas,"0067" round to nearest onehundredth cent Price Election Amount = Projected Price (or Contract Price) \* Price Election Percent [\$9.9999]. Liability for Yield Protection, "01" allows the producer the opportunity to choose a percentage of the Projected Price. Liability for Revenue Protection, "02", or Revenue Projected Price ADM 99999.9999 Protection with Harvest Price Exclusion, "03", requires the producer to choose 100 percent of the Projected Price. Edit with ADM Price, "00810".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0018 Rice 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** <u>Name</u> Number Number **Format** Rounding Rules For Yield Protection, "01", Contract Price may be used in lieu of the Projected Price for Dry Beans, Dry Peas, specialty types of Canola, Corn, Soybean or Barley. For Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03", Contract Price may be used in lieu of the Projected Price for Dry Beans, Dry **Contract Price** P11 50 9999.9999 None Peas, or specialty types of Canola, Corn or Soybeans. If the insured chooses to use the contract price, the contract price per bushel should be entered in the contract price field. The contracted price will be capped by RMA at a certain percentage over the projected price for Canola, Corn, Soybean and Barley as specified in the Special Provisions. Price Election Percent must equal 1.000, when Insurance Plan Code is Revenue Protection, ICE Price Election Percent 9.9999 None "02", or Revenue Protection with Harvest Price Exclusion, "03". Edit with ICE Price Election Percent, "D00007". Premium Total Guarantee Internal 9999999.99 Round to 2 decimals. Amount Premium Total Guarantee Premium Guarantee Per Acre Amount \* Price Election Price Election Amount Internal 9999.9999 None Amount \* Reported Acreage Reported Acreage must equal the sum of all P11 52 99999999.99 None Reported Acreage Land, P27, Reported Acreage.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.	
Total Guarantee Amount	Reported Acreage	Price Election Amount	Internal		9999.9999	None	
	Reported Acreage	Reported Acreage	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
Premium Liability Amount	= Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		999999999	Round to whole	
Fremium Liability Amount	- Fremium Total Guarantee Amount - insured Share Fercent	Insured Share Percent	P11	47	9.9999	None	
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	91	999999999	Round to whole number.	
Liability Amount	- Total dualantee Amount - madred Share recent	Insured Share Percent	P11	47	9.9999	None	
ection 2: Base Premium Ra	ate Calculation						
		Current Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Current Year Yield Ratio	= Rate Yield / Reference Amount	Rate Yield	P15	35	99999999.99	None	
		Reference Yield	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
		Prior Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Prior Year Yield Ratio	= Rate Yield / Prior Year Reference Amount	Rate Yield	P15	35	99999999.99	None	
		Prior Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Current Year Rate Multiplier	= Current Year Yield Ratio ^ Exponent Value	Current Year Rate Multiplier	Internal		9999.99999999	Round to 8 decimals.	
iviuitipiier		Exponent Value	ADM		\$99.999	None	Edit with ADM Base Rate, "A01010".
Prior Year Rate Multiplier	= Prior Year Yield Ratio ^ Prior Year Exponent Value	Prior Year Rate Multiplier	Internal		9999.9999999	Round to 8 decimals.	
•	·	Prior Year Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules
	When Rate Method Code is Fixed, "F":	Current Year Base Rate	Internal		999999999.99999999	Round to 8 decimals.	
-	= Sub County Rate	Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050" See Section 21 for Written Agreement Sub County Rate information.
	When Rate Method Code is Additive, "A":						
- Current Year Base Rate	Sub County Rate + (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Current Year Rate Multiplier	Internal		9999.99999999	None	
-	When Rate Method Code is Multiplicative, "M":						Edit with ADM Base Rate, "A01010".
	Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Reference Rate	ADM		9.9999	None	See Section 20 for Written Agreement Rat Information.
	Otherwise:						Edit with ADM Base Rate, "A01010".
=	= Current Year Rate Multiplier * Reference Rate + Fixed rate	Fixed Rate	ADM		9.9999	None	See Section 20 for Written Agreement Rat Information.
		Prior Year Base Rate	Internal		999999999.99999999	Round to 8 decimals.	
-	When Rate Method Code is Fixed, "F":  Sub County Rate	Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050' See Section 21 for Written Agreement Sub County Rate information.
	When Rate Method Code is Additive, "A":						
Prior Year Base Rate	Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Rate Multiplier	Internal		9999.99999999	None	
	When Rate Method Code is Multiplicative, "M":						Edit with ADM Base Rate, "A01010".
=	Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Reference Rate	ADM		9.9999	None	See Section 20 for Written Agreement Rat Information.
	Otherwise:						Edit with ADM Base Rate, "A01010".
=	Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed rate	Prior Year Fixed Rate	ADM		9.9999	None	See Section 20 for Written Agreement Rat Information.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Current Year Base Premium Internal 9999999999999999 Round to 8 decimals. Rate Edit with ADM Coverage Level Differential, When Unit Structure Code is equal to Optional Unit, "OU", "A01040". "UA", "UD", or Basic Unit, "BU": Rate Differential Factor ADM 9.99999999 None See Section 17 for Option Code "TA" (Trend Adjustment). Edit with ADM Coverage Level Differential, Round(Current Year Base Rate \* Rate Differential Factor \* "A01040". Unit Residual Factor, 8) See Section 18 for Option Code "TA" (Trend ADM 999.999 None Unit Residual Factor Adjustment) and Unit Structure Code equal to **Current Year Base** Optional Unit, "OU", "UA", "UD", or Basic Unit, Premium Rate Edit with ADM Coverage Level Differential, When Unit Structure code is Enterprise Unit, "EU": "A01040". See Section 18 for Option Code "TA" (Trend **Enterprise Unit Residual Factor** ADM 9.999 None Round(Current Year Base Rate \* Rate Differential Factor \* Adjustment) and Unit Structure Code equal to Enterprise Unit Residual Factor, 8) Enterprise Unit, 'EU'. Edit with ADM Coverage Level Differential, When Unit Structure code is Whole Farm Unit, "WU": "A01040". Whole Farm Unit Residual ADM 9.999 None See Section 18 for Option Code "TA" (Trend Round(Current Year Base Rate \* Rate Differential Factor \* Factor Adjustment) and Unit Structure Code equal to Whole Farm Unit Residual Factor, 8) Whole Farm Unit, 'WU'.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		Field	Record	Field	Field	Field	
	Calculations	<u>Name</u>	Number	Number	Format	Rounding	<u>Rules</u>
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Prior Year Base Premium Rate	Internal		9999999999999999	Round to 8 decimals.	
	Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Unit Residual Factor, 8)	Prior Year Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option code "TA" (Trend Adjustment).
Prior Year Base Premium		Prior Year Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU".
Rate =	When Unit Structure code is Enterprise Unit, "EU":  Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor, 8)	Prior Year Enterprise Unit Residual Factor	ADM		9.999		Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Enterprise Unit, 'EU'.
,	When Unit Structure code is Whole Farm Unit, 'WU':  Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor, 8)	Prior Year Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Whole Farm Unit, 'WU'.
Base Premium Rate =	MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate * 1.2, .999)	Base Premium Rate	P11	94	999999999999999999999999999999999999999	Round to 8 decimals.	
Revenue Lookup Rate =	MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, 0.9999)	Revenue Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.	

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Record Name: Acreage
Record Code: P11

Reinsurance Year: 2013

Version: Approved

Release Date: 2/28/2013

	Record Code: P11				Release Date:	2/28/2013		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion	
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers	
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans	
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley	
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules	
The appropriate discount factor should looked up and applied.  In the commodity Code is NOT EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or Soybeans, "0081".								
: Revenue Lookup	When the Unit Structure Code is Optional Unit, "OU",  "UA", "UD", Basic Unit, "BU", or Enterprise Unit, "EU":  Unti Structure Discount Factor	Revenue Lookup Adjustment Factor	Internal		9.99999999	None		
Adjustment Factor	When the Unit Structure Code is Whole Farm Unit "WU":  Unit Structure Discount Factor for Enterprise Unit"EU"	Unit Structure Discount Factor	Internal		9.9999999	None	Capped at 1.0 From below for Unit Structures "OU, UA, UD, BU, or EU".	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules When the Unit Structure Code is Optional Unit, "OU", Internal 9.9999999 Unit Structure Discount Factor None capped at 1.0 "UA", or "UD": Optional Unit Discount Factor None Edit with ADM Unit Discount, "A01090". ADM 9.999 **Optional Unit Discount Factor** When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor ADM 9.999 None Edit with ADM Unit Discount, "A01090". Basic Unit Discount Factor Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be Unit Structure Discount included in the Enterprise Unit. This includes Factor both fall and spring planted acreage. When the Unit Structure Code is Enterprise Unit, "EU": Enterprise Unit Discount Factor is contingent 9.999 Enterprise Unit Discount Factor ADM None upon the sum of the reported acres which were **Enterprise Unit Discount Factor** not prevented from planting for all applicable units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090". Unit is not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% of insured crop acreage.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

		. 111		Release Date.	-,,	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection			03 Revenue Protection	on with Harvest Price Exclusion
Commodity Code  Then Commodity Code is E	0011 Wheat 0015 Canola 0018 Rice  Calculations  QUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or So	0021 Cotton 0041 Corn 0043 Popcorn Field Name  pybeans, "0081".	Record Number	0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas Field Format	<u>Field</u> <u>Rounding</u>	0078 Sunflowers 0081 Soybeans 0091 Barley Rules
	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Revenue Lookup Adjustment Factor	Internal	9.99999999	None	
	Unti Structure Discount Factor	Unit Structure Discount Factor	Internal	9.9999999	None	Capped at 1.0 From below for Unit Structure "OU", "UA", o "UD".
Revenue Lookup Adjustment Factor	When Unit Structure Code is Basic Unit, "BU":  Basic Unit Discount Factor for 65% Coverage Level	Basic Unit Discount Factor	ADM	9.999	None	Edit with ADM Unit Discount, "A01090" for 6 Coverage Level.  Basic Unit Discount Factor is contingent upo the sum of the reported acres which were not prevented from planting for the unit being greater than or equal to the Area Low Quant and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.
-	When the Unit Structure Code is Enterprise Unit, "EU" or Whole Farm Unit "WU":  Enterprise Unit Discount Factor for 65% Coverage Level	Enterprise Unit Discount Factor	ADM	9.999	None	Edit with ADM Unit Discount, "A01090" for a Coverage Level.  Enterprise Unit Discount Factor is contingen upon the sum of the reported acres which was not prevented from planting for all applicabunits being greater than or equal to the Arelow Quantity and less than or equal to Arel High Quantity fields contained on the ADM Discount, "A01090" for 65% Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0067 Dry Peas 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Number Name Number **Format** Rounding Rules Capped at 1.0 When the Unit Structure Code is Optional Unit, "OU", Unit Structure Discount Factor Internal 9.9999999 None See Section 19 for Option Code "TA" (Trend "UA", or "UD": Adjustment). Edit with ADM Unit Discount, "A01090". Optional Unit Discount Factor Optional Unit Discount Factor ADM 9.999 None See Section 19 for Option Code "TA" (Trend Adjustment). Edit with ADM Unit Discount, "A01090" by Coverage Level. Basic Unit Discount Factor is contingent upon the sum of the reported acres which were not When Unit Structure Code is Basic Unit, "BU": prevented from planting for the unit being greater than or equal to the Area Low Quantity Basic Unit Discount Factor ADM 9.999 None Basic Unit Discount Factor and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for Coverage Level. See Section 19 for Option Code "TA" (Trend Adjustment).

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0067 Dry Peas 0043 Popcorn 0091 Barley Field Record Field Field Field **Calculations** Number Rounding Name Number **Format** Rules Edit with ADM Unit Discount, "A01090" by Coverage Level. Unit Structure Discount Factor Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal to the Area When the Unit Structure Code is Enterprise Unit, "EU": Low Quantity and less than or equal to Area 9.999 Enterprise Unit Discount Factor ADM None High Quantity fields contained on the ADM Unit **Enterprise Unit Discount Factor** Discount, "A01090" for Coverage Level. Unit is not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% of insured crop acreage. See Section 19 for Option Code "TA" (Trend Adjustment).

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Record Name: Acreage

Reinsurance Year: 2013 Version: Approved

		Record Name: Acreage Record Code: P11			Version: Approved Release Date: 2/28/2013					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion			
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers			
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans			
	0018 Rice	0043 Popcorn			0067 Dry Peas	_	0091 Barley			
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>				
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>			
ection 4: Optional Coverag	e (Additive "A" and Multiplicative "M")						If Option Rate Method Code equal "T' (Total Premium Rate Adjustment) see Section 9.			
		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.				
Additive Optional Rate	When Rate Method Code is Additive, "A":	Option Rate	ADM		99999.9999	None	Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A". Edit with ADM Option Rate, "A01060".			
Adjustment Factor	∑ Option Rate * Rate Differential Factor	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040".  See Section 17 for Option Code "TA" (Trend Adjustment).			
Multiplicative Optional _	When Rate Method Code is Multiplicative, "M"	: Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.				
Rate Adjustment Factor	∑ Option Rate1 * Option Rate2 * Option Rate3	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".			

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Record Name: Acreage
Record Code: P11

Reinsurance Year: 2013

Version: Approved

Release Date: 2/28/2013

	Record Code: P11			Release Date: 2/28/2013						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion			
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley			
	Calculations	Field Name	Record Number	<u>Field</u> <u>Number</u>	Field Format	<u>Field</u> <u>Rounding</u>	Rules			
Section 5: Revenue Covera	ige Add on Rates (Applicable only for Plans 02 and 03)						It is recommended that other than hard coding for specific type and practice codes which will eventually change when the new key structure is adopted, that a condition be put in place that will set the add on rate to 0 when the Price Volatility is 0. This condition MUST occur at some point in order to circumvent the Calculation of Preliminary Revenue Protection Add on Rate and Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate, which contains a constraint that the add on rate be at least 1% greater than the base Premium Rate.			
		Lookup Rate	Internal		999999999999999	Round to 4 decimals.				
Lookup Rate	= Revenue Lookup Rate * Revenue Lookup Adjustment Factor	Revenue Lookup Rate	Internal		999999999.9999	Round to 4 decimals.	From Section 2.			
		Revenue Lookup Adjustment Factor	Internal		9.9999999	None	From Section 3.			
		Adjusted Mean Quantity (AdjMean)	Internal		999999.99999999	Round to 8 decimals.				
Adjusted Mean Quantity	= Approved Yield * Mean Quantity / 100	Approved Yield (AY)	P11	46	9999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)			
		Mean Quantity	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030".  Search the Combo Revenue Factor, "A01030" for the Mean Quantity using Lookup Rate.			

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Record Name: Acreage Record Code: P11

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
		Adjusted Standard Deviation Quantity (AdjStndDev)	Internal		99999999999999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity	= Approved Yield * Standard Deviation Quantity / 100	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have beer if TA wasn't selected without the effects to cup or floors)
		Standard Deviation Quantity	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030".  Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity using Lookup Rate.
LnVar =	= Ln((Price Volatility Factor)^2 + 1)	Log Variance Quantity (LnVar)	Internal		999999.9999999	Round to 8 decimals.	
	·· , , , , , , , , , , , , , , , , , ,	Price Volatility Factor	ADM		9.99		Edit with ADM Price, "A00810".
InMean	= Ln(Projected Price or Contract Price) – LnVar / 2	log Mean Quantity (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
Linviedii	,teaee or contract they - Lilvai / 2	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".
		Contract Price	P11	50	9999.9999	None	Contract price as addressed in Section 1, cappe with Max Contract Price from ADM.
Yield Draw Quantity <sub>Sequence</sub> = Number	For Sequence Number 1 to 500 = Yield Draw Quantity	Yield Draw Quantity	ADM		\$99.999999999	None	Edit with ADM Beta, "A01020".  Use the Beta ID field from ADM Insurance Offer "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM, "A00030".
Price Draw Quanity <sub>Sequence</sub> <u>-</u> Number	For Sequence Number 1 to 500 = Price Draw Quantity	Price Draw Quantity	ADM		\$99.99999999	None	Edit with ADM Beta, "A01020".  Use the Beta ID field from ADM Insurance Offer "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM

Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
		Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.	
Simulated Yield Protection Losses Quantity	= $\sum_{i=1}^{500}$ Round(MAX(0, AY * covlvl - Round(MAX(0, Yield <sub>i</sub> * AdjStndDev + AdjMean),12)), 12)	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)
		Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
		Yield Draw Quantity, (Yield,)	ADM		\$99.99999999	None	
		Simulated Revenue Protection Losses Quantity(SimRPLosses)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.	
Simulated Revenue Protection Losses =	Round(MIN(2 * ProjPrice, Round(e <sup>(Price</sup> i*)  = Round(vLnVar,12) + LnMean),12)),12),-12) -  (Round(MAX(0, Yieldi * AdjStdDev + AdjMean),12)  *	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)
Quantity		Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
		Yield Draw Quantity <sub>i</sub> (Yield <sub>i</sub> )	ADM		\$99.99999999	None	
		Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
	500	Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.	
Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity	$\sum$ Round(MAX(0, AY * covIvI * ProjPrice - (Round(MAX(0,Yield; *	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cup or floors)
		Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
		Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0015 Canola	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
Simulated Yield Protection Base Premium Rate	(Simulated Yield Protection Losses Quantity / 500) / (Approved Yield * Coverage Level Percent)	Simulated Yield Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) Effective Coverage Level Percent will replace Coverage Level Percent.
Protection Base Premium :	(Simulated Revenue Protection Losses / 500) / (Approved = Yield * Coverage Level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) Effective Coverage Level Percent will replace Coverage Level Percent.
Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	(Simulated Revenue Protection with harvest Price Exclusion = Losses Quantity / 500) / (Approved Yield * Coverage level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) Effective Coverage Level Percent will replace Coverage Level Percent.
Protection Premium Add :	MAX(Simulated Revenue Protection Base Premium Rate - = Simulated Yield Protection Base Premium Rate, 0.01 * Base Premium Rate)	Preliminary Revenue Protection Premium Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection is at least 1% greater than the basic Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.
Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	MAX(Simulated Revenue Protection with Harvest Price = Exclusion Base Premium Rate - Simulated Yield Protection Base Premium Rate, -0.5 * Base Premium Rate)	Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection with Harvest Price Exclusion will not be less than half of the Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.

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Record Name: Acreage Record Code: P11

Reinsurance Year: 2013 Version: Approved

Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>

Section 6: Historical Revenue Capping (Applicable only for Plans 02 and 03)

Note: This Section will not apply if record has a Written Agreement.

This section is for calculation the 2010 Revenue Assurance Optional Unit Level Base Premium Rate for coverage level percents 65 thru 85 where applicable. Then it is used in conjunction with the Base Premium Rate and Revenue Add On Rates to compute capped Revenue Add On Rates. This table is set up such that the only value that will change from year to year is the Commodity Year. By doing this we are fixing a point where the premium calculation method was changed and applying an exponential capping over time.

If there is NOT a corresponding row in the Historical Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55, 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performed for those coverage level percents as well.

When TA Option is selected, this section does not apply when the Effective Coverage Level is less than 65%.

	Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Capping Yield Ratio = Rate Yield / Capping Reference Yield	Rate Yield	P15	35	99999999.99	None	
	Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
	Prior Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Prior Capping Yield Ratio = Rate Yield / Prior Capping Reference Yield	Rate Yield	P15	35	99999999.99	None	
	Prior Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
Capping Date Multiplier & Capping Viold Datis According Supposed Value	Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
Capping Rate Multiplier = Capping Yield Ratio ^Capping Exponent Value	Capping Exponent Value	ADM		\$99.999	None	Edit with ADM Historical Revenue Capping, "A01110".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
Prior Capping Rate	F Prior Capping Yield Ratio <b>^Prior</b> Capping Exponent Value	Prior Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
Multiplier		Prior Capping Exponent Value	ADM		S99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
	If Rate Method Code = Fixed, "F": Sub County Rate	Historical Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.	
	If Rate Method Code = Additive, "A":  Sub County Rate + (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050". See Section 21 for Written Agreement Sub County Rate information.
Historical Capping Base Rate	If Rate Method Code = Multiplicative, "M":  Sub County Rate * (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	Otherwise:  (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	If Rate Method Code = Fixed "F": Sub County Rate	Historical Prior Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.	
	If Rate Method Code = Additive, "A":  Sub County Rate + (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050". See Section 21 for Written Agreement Sub County Rate information.
Historical Prior Capping Base Rate	If Rate Method Code = Multiplicative, "M":  Sub County Rate * (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	Otherwise:  (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
Historical Basic Unit Base Rate	.9 * MIN(.999, Historical Prior Capping Base Rate * 1.2, Historical Capping Base Rate)	Historical Basic Unit Base Rate	Internal		999999.9999999	Round to 8 decimals.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0047 Dry Beans 0021 Cotton 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See P14 Coverage Level Percent 34 9.9999 None When Unit Structure Code is equal to Optional Unit, "OU", Section 16 for Option Code "TA" (Trend "UA", "UD", or Basic Unit, "BU": Adjustment). [beta0 Factor + Beta 1 Factor \* Historical Basic Unit Base Rate + Beta 2 Factor \* Historical Basic Unit Base Rate ^2 + Beta 3 Factor \* Coverage Level Percent + Beta 4 Factor \* Coverage Level Percent ^2 + Round each Beta 5 Factor \* Approved Yield / Capping Reference Yield + intermittent Beta \* Beta 6 Factor \* (Approved Yield / Capping Reference Historical Revenue Protection calculation to 8 Yield)^2 + Internal 9999999999999999 decimals as it has Base Premium Rate Beta 7 Factor \* Price Volatility Factor + been done Beta 8 Factor \* Price Volatility Factor^2 + historically. Historical Revenue Beta 9 Factor \* Historical Basic Unit Base Rate \* Coverage **Protection Base Premium** Level Percent + Beta 10 Factor \* Historical Basic Unit Base Rate \* Approved Yield / Capping Reference Yield + Beta 11 Factor \* Historical Basic Unit Base Rate \* Price Volatility Factor + Beta 12 Factor \* Coverage Level Percent \* Approved Yield / Capping Reference Yield + Edit with ADM Historical Revenue Capping, Beta 13 Factor \* Coverage Level Percent \* Price Volatility Beta O Factor - Beta 14 Factor ADM \$99,99999999 None "A01110". Price Volatility Factor ADM 9.99 None Edit with ADM Price, "A00810". Beta 14 Factor \* (Approved Yield / Capping Reference Edit with ADM Coverage Level Differential, Yield) \* Price Volatility Factor ] \* Unit Residual Factor X 1.1 "A01040". Unit Residual Factor ADM 999,999 None See Section 18 for Option Code "TA" (Trend Adjustment). When Unit Structure Code is equal to Enterprise Unit, Edit with ADM Coverage Level Differential, "EU": "A01040". **Enterprise Unit Residual Factor** ADM 999.999 None See Section 18 for Option Code "TA" (Trend Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Adjustment). Factor'

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0047 Dry Beans 0021 Cotton 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Coverage Level Percent P14 34 9.9999 None When Unit Structure Code is equal to Optional Unit, "OU", Section 16 for Option Code "TA" (Trend "UA", "UD", or Basic Unit, "BU": Adjustment). [beta0 Factor + Beta 1 Factor \* Historical Basic Unit Base Rate + Beta 2 Factor \* Historical Basic Unit Base Rate ^2 + Beta 3 Factor \* Coverage Level Percent + Beta 4 Factor \* Coverage Level Percent ^2 + Round each Beta 5 Factor \* Approved Yield / Capping Reference Yield + intermittent Beta \* Beta 6 Factor \* (Approved Yield / Capping Reference Historical Revenue Protection calculation to 8 Yield)^2 + with Harvest Price Exclusion 999999999999999 Internal decimals as it has Beta 7 Factor \* Price Volatility Factor + Base Premium Rate been done Beta 8 Factor \* Price Volatility Factor^2 + Historical Revenue historically. Beta 9 Factor \* Historical Basic Unit Base Rate \* Coverage Protection with Harvest Level Percent + Price Exclusion Base Beta 10 Factor \* Historical Basic Unit Base Rate \* Approved Premium Rate Yield / Capping Reference Yield + Beta 11 Factor \* Historical Basic Unit Base Rate \* Price Volatility Factor + Beta 12 Factor \* Coverage Level Percent \* Approved Yield / Capping Reference Yield + Beta 13 Factor \* Coverage Level Percent \* Price Volatility Edit with ADM Historical Revenue Capping, Beta O Factor - Beta 14 Factor \$99.99999999 ADM None "A01110". Beta 14 Factor \* (Approved Yield / Capping Reference Price Volatility Factor ADM 9.99 None Edit with ADM Price, "A00810". Yield) \* Price Volatility Factor ] \* Unit Residual Factor X 1.1 Edit with ADM Coverage Level Differential, "A01040". Unit Residual Factor ADM 999.999 None See Section 18 for Option Code "TA" (Trend Adjustment) When Unit Structure Code is equal to Enterprise Unit, Edit with ADM Coverage Level Differential, "EU": "A01040". ADM 999.999 **Enterprise Unit Residual Factor** None See Section 18 for Option Code "TA" (Trend Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Adjustment). Factor'

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
Capped Revenue Protection Add on Rate	MIN(Base Premium Rate + Preliminary Revenue Protection  Add On Rate, Historical Revenue Protection Base Premium  Rate * 1.2^(Commodity Year - Capping Year)) - Base	Capped Revenue Protection Add on Rate	Internal		9999999999999999	Round to 8 decimals.	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.
	Premium Rate	Base Premium Rate	P11	94	999999.9999999	None	
		Commodity Year	P14	10	CCYY	None	
		Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110".
Price Exclusion Add on	MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical  = Revenue Protection with Harvest Price Exclusion Base  Premium Rate * 1.2^(Commodity Year - Capping Year)) -  Base Premium Rate	Capped Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		9999999999999999	Round to 8 decimal	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.
Rate		Base Premium Rate	P11	94	999999.9999999	None	
		Commodity Year	P14	10	CCYY	None	
		Capping Year	ADM		ССҮҮ	None	Edit with ADM Historical Revenue Capping, "A01110".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0047 Dry Beans 0021 Cotton 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field <u>Field</u> Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules The Whole Farm Unit Discount is only applicable to the Revenue Protection and **Revenue Protection with Harvest Price Exclusion Insurance Plans, unless the Special Provisions allow Whole Farm Units for other** Insurance Plans. Whole Farm Units will now mandate that Section 7: Whole Farm Unit Base Premium Rate producers include both their spring and fall planted commodities into the whole farm unit for commodity/plans offering Whole Farm Units. Malting Barley Coverage is NOT applicable for Whole Farm Unit. Malting Barley Coverage is provided as a separate Basic Unit. Lookup Rate Internal 9999999999.9999 Round to 4 decimals. Lookup Rate = Revenue Lookup Rate \* Revenue Lookup Adjustment Factor Revenue Lookup Rate Internal 9999999999.9999 Round to 4 decimals. From Section 2. Revenue Lookup Adjustment 9.9999999 Internal None From Section 3. Edit with ADM Combo Revenue Factor, "A01030". Mean Quantity commodity ADM 999.99999999 None Search the Combo Revenue Factor, "A01030" Mean Quantity commodityj = Base Rate commodityj Mean Quantity commodityj WHERE Lookup Rate commodityj = for the Mean Quantity, When the Lookup Rate = Base Rate Lookup Rate commodityj Internal 9.9999 None Edit with ADM Combo Revenue Factor, 9.9999 Base Rate commodityj ADM None "A01030".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0015 Canola	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Standard Deviation Quantity <sub>commodityj</sub>	Standard Deviation Quantity <sub>commodityj</sub> WHERE Lookup Rate = commodityj = Base Rate <sub>commodityj</sub>	Standard Deviation Quantity commodityj	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030".  Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Lookup Rate = Base Rate
		Lookup Rate commodityj	Internal		9.9999	None	
		Base Rate commodityj	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".
		Adjusted Mean Quantity	Internal		999999.99999999	Round to 8 decimals.	
Adjusted Mean Quantity commodityj	= Approved Yield <sub>commodityj</sub> * Mean Quantity <sub>commodityj</sub> / 100	Approved Yield <sub>commodityj</sub>	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)
		Adjusted Standard Deviation Quantity commodityj	Internal		9999999999999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity = commodityj	Approved Yield <sub>commodityj</sub> * Standard Deviation Quantity <sub>commodityj</sub> / 100	Approved Yield <sub>commodityj</sub>	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)
I al Varier	In//Drice Veletility Forter N3 : 4)	Log Variancecommodityj (LnVar)	Internal		999999.9999999	Round to 8 decimals.	
LnVariance <sub>commodityj</sub> = In((P	= In((Price Volatility Factor <sub>commodityj</sub> )^2 + 1)	Price Volatility Factor <sub>commodityj</sub>	ADM		9.99	None	Edit with ADM Price, "A00810".
	In(Projected Price or Contract Price <sub>commodity</sub> ) –	log Mean <sub>commodityj</sub> (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
LnMean <sub>commodityj</sub> =	In(Projected Price or Contract Price <sub>commodityj</sub> ) – = LnVariance <sub>commodityj</sub> / 2	Projected Price or Contract Price <sub>commodityj</sub>	ADM		99999.9999		Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0067 Dry Peas 0043 Popcorn 0091 Barley Field Record Field Field Field **Calculations** Number Rounding Name Number **Format** Rules ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the Yield Draw Quantity = Yield Draw Quantity<sub>commodity</sub> applicable draws. There should be 500 Draws Yield Draw Quantity ADM \$99.99999999 None (or sequence numbers) per Beta Id in the ADM commodityj Sequence Number Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030". ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the Price Draw Quantity = Price Draw Quantity<sub>commodity</sub> applicable draws. There should be 500 Draws ADM Price Draw Quantity S99.99999999 None (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".

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Record Name: Acreage Record Code: P11

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	ion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
		Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		999999999.9999999999	Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.
		Coverage Level Percent <sub>commodityj</sub> (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
500 all Commodities  ∑ Round(MAX(0,∑ Ay <sub>commodityj</sub> *  i=1 j=  Acres <sub>commodityj</sub> * covlvl <sub>commodityj</sub> *  Round(MAX(ProjPrice <sub>commodityj</sub> , Round(MIN(2))	Approved Yield <sub>commodityj</sub> (AY)	P11	46	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have being TA wasn't selected without the effects to cor floors)	
	ProjPrice <sub>commodityj</sub> , Round(e <sup>(Pricecommodityj) *</sup> Round(vLnVarcommodityj,12) +  LnMeancommodityj),12)),12)),12) - all Commodities  \[ \sum_{\text{Round}} \text{Round}(\text{MAX}(0, \text{Round}(\text{Yield}_{commodityj}) *	Reported Acreage <sub>commodityj</sub> (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.  Reported Acreage for each Commodity/Acrea report line in the Whole Farm Unit.
		Projected Price or Contract Price <sub>commodityj</sub> (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810".  Projected Price or Contract Price for each Commodity/Acreage report line in the Whole Farm Unit.
	LnMeancommodityj),12)),12) * Round(Acres <sub>commodityi,12</sub> )), 12)	Price Draw Quanity <sub>commodityj</sub> i (Price)	ADM		\$99.99999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.
	Tourist Cocommodityj,12//, 12/	Log Variance <sub>commodityj</sub> (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
		log Mean <sub>commodityj</sub> (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage repoline in the Whole Farm Unit.
		Yield Draw Quantity <sub>commodityj</sub> i (Yield)	ADM		\$99.99999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.

Record Name: Acreage Record Code: P11

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
<b>Commodity Code</b>	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
		Adjusted Standard Deviation Quantity <sub>commodityj</sub> (AdjStnDev)	Internal		999999999999999999	None	Adjusted Standard Deviation Quantity for ea Commodity/Acreage report line in the Whole Farm Unit.
		Adjusted Mean Quantity <sub>commodityj</sub> (AdjMean)	Internal		999999.99999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
		Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF)	Internal		999999999999999999999	Round to 12 decimals.	Simulated Revenue Protection Harvest Price Excluded Losses for All Commodity/Acreage report lines in the Whole Farm Unit.
		Coverage Level Percent <sub>commodityj</sub> (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) thi will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
Simulated Revenue	500 all commodities $\sum_{i=1}^{500} \text{Round(MAX (0, }\sum_{covIVI_{commodityj}}^{} \text{*}$ $= \sum_{j=1}^{500} \text{AY}_{commodityj} \text{* ProjPrice}_{commodityj}$ $\text{* Acres}_{commodityj} \text{) -}$	Approved Yield <sub>commodityj</sub> (AY)	P11	46	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, the Approved Yield will be th greater of the Trended yield and the adjusted yield (the approved yield that would have be if TA wasn't selected without the effects to cor floors)
Duataction However Dries	AdjStdDev <sub>commodityj</sub> + AdjMean <sub>commodityj,12</sub> )),12) * Round(MIN(2 * ProiPrice <sub>commodityj</sub> ,	Reported Acreage <sub>commodityj</sub> (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.  Reported Acreage for each Commodity/Acrea report line in the Whole Farm Unit.
	Round(e <sup>(Pricecommodityji * Round(VLnVarcommodityj,12) + LnMeancommodityj)</sup> ,12)),12) * Round(Acres <sub>commodityj,12</sub> )), 12)	Projected Price or Contract Price <sub>commodityj</sub> (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810".  Projected Price or Contract Price (as addresse in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
		Yield Draw Quantity <sub>commodityj</sub> i (Yield)	ADM		\$99.99999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whol Farm Unit.
25/2013		Adjusted Standard Deviation Quantity <sub>commodityj</sub> (AdjStnDev) Page 29	Internal		9999999999999999	None	Adjusted Standard Deviation Quantity for ea Commodity/Acreage report line in the Whol Farm Unit.

Record Name: Acreage Record Code: P11

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
		Adjusted Mean Quantity <sub>commodityj</sub> (AdjMean)	Internal		999999.99999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
		Price Draw Quanity <sub>commodityj</sub> i (Price)	ADM		\$99.99999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
		Log Variance <sub>commodityj</sub> (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
		log Mean <sub>commodityj</sub> (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage repoline in the Whole Farm Unit.
	<u>SimRPLossesWF</u> 500	Coverage Level Percent <sub>commodityj</sub> (covlvl)	P14	34	9.9999		For Option Code "TA" (Trend Adjustment) thi will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
Revenue Protection Whole Farm Rate	all commodities  ∑(covIvI <sub>commodityj</sub> * AY <sub>commodityj</sub> * ProjPrice <sub>commodityj</sub> * j =  Acres <sub>commodityj</sub> )	Revenue Protection Whole Farm Rate	Internal		9999999999999999	Round to 8 decimals.	
		Projected Price or Contract Price <sub>commodityj</sub> (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810".  Projected Price or Contract Price (as addresse in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
	<u>SimRPhpeLossesWF</u>	Coverage Level Percent <sub>commodityj</sub> (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
Revenue Protection with Harvest Price Exclusion = Whole Farm Rate	all commodities  \[ \sum_{(covIvI_{commodityj}} * AY_{commodityj} * ProjPrice_{commodityj} * \]  j =	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		9999999999999999	Round to 8 decimals.	
25/2013	Acres <sub>commodityj</sub> )	Projected Price or Contract Price <sub>commodityj</sub> (ProjPrice) Page 30	ADM		99999.9999	None	Edit with ADM Price, "A00810".  Projected Price or Contract Price (as addresse in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.

Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
When Insurance Plan Code	e equals Revenue Protection, "02":						
Whole Farm Base Premium Rate	= Revenue Protection Whole Farm Rate	Whole Farm Base Premium Rate	Internal		99999999999999999	None	
When Insurance Plan Code "03":	e equals Revenue Protection with Harvest Price Exclusion,						
Whole Farm Base Premium Rate	= Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999999999	None	

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Record Name: Acreage Record Code: P11

	Record Code:	Release Date: 2/28/2013						
Incurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	with Harvest Price Exclusion	
Insurance Plan Code	OI Yield Protection	02 Revenue Protection				03 Revenue Protection	With Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley	
	Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
Section 8: Premium Rate							The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.	
When Unit Structure Code e Premium Rate =	MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting) + Sum ((Reported Acreage * Additive Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting), 8))	Premium Rate	Internal		9999999999999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000. For situations where the option factors vary by Commodity, a reported Acreage weighted average of the Option Factors should be used to determine the Multiplicative and Additive Optional Rate adjustments to be used in the computation of the Premium Rate for Whole Farm Unit.	
	whole rannincluding rrevented riantings, of	Total Reported Acreage	Internal		99999999.99	None	Total Reported Acreage for the Whole Farm including Prevented Planting.	
When Unit Structure Code D Premium Rate =	MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal		999999999999999	Round to 8 decimals.	Set Capped Revenue Add On Factor as follows: If Insurance Plan Code equals 01, Capped Revenue Add On Factor will equal zero. If Unit Structure Code does not equal Whole Farm (WU), set Capped Revenue Add On Factor as follows: If Section 6 is applicable, Capped Revenue Add On Factor will equal Capped Revenue Protectio Add On Rate when Insurance Plan Code equals 02 or Capped Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03. If Section 6 is not applicable, Capped Revenue Add On Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03.	

Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field Field Record <u>Field</u> Calculations Name Number Number **Format** Rounding Rules Section 9: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Round to whole 999999999 Preliminary Total Premium Internal number. Experience Factor is only applicable for **Experience Factor** P11 51 9.999 None Insurance Plan Code Yield Protection, "01". Premium Liability Amount \* Premium Rate \* Experience Preliminary Total = Factor \* Premium Surcharge Percent \* Total Premium Use when the Approved Yield Had a Cup or Premium Premium Surcharge Percent Internal Multiplicative Optional Rate Adjustment Factor Surcharge applied. If Option Rate with Rate Method Code equal Total Premium Multiplicative "T". Edit with ADM Option Rate, "A01060". Optional Rate Adjustment ADM 9.9999 None Currently this will be used for Short Rate Factor Option. Round to whole **Total Premium Amount** P11 92 999999999 number. Preliminary Total Premium \* Multiple Commodity Total Premium Amount = Adjustment Factor Multiple Commodity Edit with ICE Multiple Cropping, "D00063". ICE 9999.999 None Adjustment Factor Used when there is a first Commodity Loss. Round to whole Subsidy Amount P11 90 999999999 number. Subsidy Amount = Total Premium Amount \* Subsidy Percent Subsidy Percent ADM 9.999 None Edit with ADM Subsidy Percent, "A00070". Producer Premium . = Total Premium Amount - Subsidy Amount Round to whole **Producer Premium Amount** P11 93 999999999 number.

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	Record Name: Acreage Record Code: P11				Version Release Date	: Approved : 2/28/2013	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola	0021 Cotton 0041 Corn			0047 Dry Beans 0051 Grain Sorghum		0078 Sunflowers 0081 Soybeans
	0018 Rice <u>Calculations</u>	0043 Popcorn  Field Name	Record Number	<u>Field</u> Number	0067 Dry Peas Field Format	<u>Field</u> <u>Rounding</u>	0091 Barley  Rules
Malting Barley Options M.	А & МВ						If either the Malting Barley Option A or Malting Barley option B is chosen, a new record(s) will need to be prepared for this endorsement. These record should meet the following criteria:  1) The acreage records for the MA or MB records should be less than or equal to the acreage of the base offer  2) The Base Offer will not have the MA/MB option returned in the option field  3) The Acreage records with the MA or MB option will have the MA or MB option indicated in the option Field.
							Malting Barley Option A Requirements:
							To qualify for this option, the producer must:  1) Provide acceptable Malting Barley sales records for at least the 4 most recent Commodity Years and the number of acres planted to malting varieties.  2) If produced under a contract or price agreement, a copy of the current contract or price agreement must be provided on or before the acreage reporting date if the additional value price from the contract/price agreement is to be used for determining liability.
							Malting Barley Option B Requirements:
							To qualify for this option, the producer must:  1) Have planted Malting Barley for at least one of the three Commodity Years directly preceding the previous Commodity Year  2) Sold at least 75% of the contracted amount for the Commodity Year such contract was applicable  3) Provide a copy of the prior contract and acceptable records of sales.

Record Name: Acreage Record Code: P11

	Record Code	: P11	1 Release Date: 2/28/2013								
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion				
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley				
	<u>Calculations</u>	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules				
Section 10: Liability Calcula	<del></del>						_				
Approved Yield	Approved Yield calculated in accordance with the Basic Provisions  = OR  Σ(Number of Bushels / Reported Acreage) / Σ number of years	Approved Yield	P11	46	999999999.99		According to the Malting Barley Price and Quality Endorsement, the Approved Yield can be based on either the procedures established in the Basic Provisions, or by averaging the yields required to meet the qualifications for Option A.				
Premium Guarantee Per	= Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999999999999999999999999999999999	Round to 1 decimals.	Common Crop Insurance Policy definition 'production guarantee (per acre)'.				
Acre Amount	- Approved Held Coverage Level Percent	Approved Yield	P11	46	99999999.99	None					
		Coverage Level Percent	P14	34	9.9999	None					
Price Election Amount	= Additional Value Price	Price Election Amount	Internal		9999.9999	None	Price Election Amount will be set equal to the Additional Value Price. The Additional Value price is the difference between the contract price and regular Barley's Projected Price or the additional value price provided in the ADM if the contract price is not used.  1) The Contract Price: a) The sale price per bushel established in the contract or price agreement less the projected price for Barley. b) The amount per bushel (not including discounts or incentives) above the feed barley price that is determined at a later date, provided the method of determining the price specified in the contract or price agreement. c) If the contract or price agreement has a variabl price option, the price OR the method of determining a price that will be treated as the sale price.  2) The additional Value price indicated in the actuarial documents: a) if there is no malting barley contract. b) The contract or price agreement was not provided by the acreage reporting date.  3) The additional Value price: a) For Option A WILL NOT EXCEED \$1.25. b) For Option B WILL				

Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
1) Reported Acreage (Record 2)	MIN(Total Reported Acreage, Malting Barley Contract 1 Bushels / Approved Yield)  MIN(Total Reported Acreage - Reported Acreage for Record 1, Malting Barley Contract 2 Bushels / Approved Yield)  MIN(Total Reported Acreage -  *-1  ∑Malting Barley Contract I, malting Barley Contract X)	Reported Acreage	Internal		15011165	None	There may need to be multiple record is there are multiple contracts and/or there are more acres insured to yield more bushels than the contract(s) call for.  Acreage in excess of contracted acreage will be insured at the additional value price on the actuarial documents.  If there is not enough reported acres to support all of the contracts, Insurance will be limited to what the total reported acreage will support.
	= Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	Round to 1 decimals.	Determine the Premium Guarantee Per Acre Amount and the Guarantee Per Acre Amount for each record. Common Crop Insurance Policy definition 'production guarantee (per acre)'.
If Late Planting applies:							Described Diseases and a section of the Malkins
Guarantee Per Acre Amount	Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Per Acre Amount	Internal		999999999.99	Round to 1 decimals.	Prevented Planting does not apply to Malting Barley Option A or Malting Barley Option B records.
Premium Total Guarantee Amount	= Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
Total Guarantee Amount	= Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.	
	= Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		999999999	Round to whole number.	
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	91	999999999	Round to whole number.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

	Nessia code				nelease Bate	, -, -	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	Field Name	Record Number	<u>Field</u> Number	Field Format	<u>Field</u> <u>Rounding</u>	Rules
Section 11: Premium Rate							
Premium Rate	MIN(.999, Base Premium Rate * Unit Structure Discount = Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor)	Premium Rate	Internal		9999999999999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000.  To Determine the Premium Rate for the Maltin Barley Option Records:  1) Use the Rate Yield as determined under normal procedures.  2) Process the Rate Yield through section 2 of these procedures as if it was a normal Yield Protection Plan of Insurance using the rating components for the regular Barley offer.  3) Find the Basic Unit Discount Factor to be applied later from section 3 of these procedur as if it was a normal Yield Protection Plan of Insurance  4) Find the applicable Malting Barley Option Factor to be applied later from section 4. This will be the only option factor applied to a Malting Barley record.  5) Sections 5, 6, 7 are not applicable for MA/N records.
		Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999		
		Additive Optional Rate Adjustment Factor	Internal		999999.9999		

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Record Name: Acreage
Record Code: P11

Reinsurance Year: 2013

Version: Approved

	Record Co	<b>de:</b> P11	Release Date: 2/28/2013						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley		
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
ection 12: Total Premium	n Amount, Subsidy Amount, and Producer Premium Amour	t							
		Preliminary Total Premium	Internal		999999999	Round to whole number.			
Preliminary Total Premium	Premium Liability Amount * Premium Rate * Experience Factor * Premium Rate Surcharge Percent <del>Factor</del>	Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".		
		Premium Rate Surcharge Percent							
Total Premium Amount	Preliminary Total Premium * Multiple Commodity	Total Premium Amount	P11	92	999999999	Round to whole number.			
	Adjustment Factor	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".		
Subsidy Amount	= Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	90	999999999	Round to whole number.			
ŕ	·	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".		
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	93	999999999	Round to whole number.			
Cottonseed Endorsement (	Option 'SE'						Information (Approved Yield, Reported Acreag Insured Share Percent) will be obtained from Cotton P11 record and Rate Yield from P15 record associated with the Cottonseed record. CAT does not apply to Plan 01 Cottonseed. Un Structure Code 'WU' does not apply to Cottonseed.		
ection 13: Liability Calcul	lation								
Modified Vield	= Approved Yield * Option Conversion Factor	Modified Yield	Internal		99999999.99	Round to whole Number.			
Wiballica Hela	- Approved their Option Conversion Factor	Approved Yield	P11	46	99999999.99	None	From Cotton P11 record.		
		Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".		
Premium Guarantee Per Acre Amount	= Modified Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		99999999.99	Round to whole number.			
		Coverage Level Percent	P14	34	9.9999	None	<u> </u>		

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
<b>Commodity Code</b>	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	Field	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	Rules
Guarantee Per Acre	When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P":	Guarantee Per Acre Amount	Internal		99999999.99	Round to whole number.	
Amount	= Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Adjustment Factor	P11	75	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".
Price Election Amount = Projected Price * Price Election Percent		Price Election Amount	Internal		9999.9999	Round to nearest whole cent [\$9.99].	Cottonseed will equal the Projected Price from ADM regardless of Price Election Percent for Cotton Lint.
		Projected Price	ADM		99999.9999		
		Price Election Percent	ICE		9.9999	None	Will always be 1.000 for Cottonseed.
Premium Total Guarantee	Premium Guarantee Per Acre Amount * Price Election	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
Amount	Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	52	99999999.99	None	From Cotton P11 record.
Tatal Community of Assessment	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.	
Total Guarantee Amount	= Reported Acreage	Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	52	999999.99	None	From Cotton P11 record.
Premium Liability Amount	= Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		999999999	Round to whole number.	
-		Insured Share Percent	P11	47	9.9999	None	From Cotton P11 record.
Liability Amount :	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	91	999999999	Round to whole number.	
		Insured Share Percent	P11	47	9.9999		From Cotton P11 record.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0047 Dry Beans 0078 Sunflowers 0021 Cotton **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field <u>Field</u> Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Section 14: Premium Rate To Determine the Premium Rate for the Cottonseed records: 1) Use the Rate Yield as determined under normal procedures. 2) Process the Rate Yield through section 2 of these procedures using the rating components for regular Cotton offer. Premium Rate Round to 8 decimals. 3) Find the Unit Structure Discount Factor to be Internal 9999999999999999 MIN(.999, Base Premium Rate \* Unit Structure Discount applied later from section 3 of these procedures Premium Rate = Factor \* Multiplicative Optional Rate Adjustment Factor+ for regular Cotton offer. Additive Optional Rate Factor) 4) Find the applicable Option Factors to be applied later from section 4 for regular Cotton 5) Sections 5, 6, 7 are not applicable for Cottonseed records. Multiplicative Optional Rate Internal 999999.9999 Adjustment Factor Additive Optional Rate 999999.9999 Internal Adjustment Factor Section 15: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Round to whole Preliminary Total Premium Internal 999999999 number. Preliminary Total  $\underline{\ \ }$  Premium Liability Amount \* Premium Rate \* Experience Experience Factor is only applicable for **Experience Factor** P11 51 9.999 None Premium Factor \* Premium Rate Surcharge Percent Insurance Plan Code Yield Protection, "01". Premium Rate Surcharge Percent Round to whole Total Premium Amount P11 92 999999999 Preliminary Total Premium \* Multiple Commodity number. Total Premium Amount = Adjustment Factor Multiple Commodity ICE 9999.999 None Edit with ICE Multiple Cropping, "D00063". Adjustment Factor Round to whole Subsidy Amount P11 90 999999999 number. Subsidy Amount = Total Premium Amount \* Subsidy Percent Subsidy Percent ADM 9.999 None Edit with ADM Subsidy Percent, "A00070". Producer Premium . = Total Premium Amount - Subsidy Amount Round to whole P11 93 999999999 Producer Premium Amount Amount number.

Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0018 Rice 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Trend Adjustment Option (TA) ONLY available in APH Yield Trend (Trend Adjustment Option 'TA') select counties for selected crops. See "white paper" for examples. Section 16: Effective Coverage Level Calculation Effective Coverage Level Rounded to 2 decimal 9.99 Internal places. Percent Coverage Level Percent P14 34 9.9999 None For APH Trend, the Approved Yield will be the Effective Coverage Level = Coverage Level Percent \* Approved Yield/Adjusted Yield greater of the Trended yield and the adjusted Percent P11 Approved Yield 46 9999999.99 None yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) Adjusted Yield P15 44 9999999.99 None When Trend Adjustment Option (TA) was Section 17: Rate Differential Factor chosen and yield reflects a trend. Round to 9 decimal Rate Differential Factor Internal 9.99999999 places Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Base Rate Differential Factor ADM 9.99999999 None Coverage Level. Edit with ADM Coverage Level Differential, "A01040".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		Upper Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040".  If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level.  If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level.  If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Rate Differential Factor	Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Lower Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040".  If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greate.
		Effective Coverage Level Percent	Internal		9.99	None	

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Record Name: Acreage

Reinsurance Year: 2013

Version: Approved

Record Code: P11 Release Date: 2/28/2013 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field Field **Calculations** Number Number Rounding Name **Format** Rules Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then Floored Effective Coverage this will be the lower ADM Coverage Level. Internal 9.99 None Level Percent If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0018 Rice 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** <u>Name</u> Number Number **Format** Rounding Rules Prior Year Rate Differential Round to 9 decimal Internal 9.99999999 Factor places. Base Prior Year Rate Differential Factor is equal to Prior Year Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Base Prior Year Rate Differential ADM 9.99999999 None Effective Coverage Level. Edit with ADM Factor Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Prior Year Rate existing ADM Coverage Levels then this will be ADM 9.99999999 None Differential Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Round(Base Prior Year Rate Differential Factor + (Upper Edit with ADM Coverage Level Differential, Bound Prior Year Rate Differential Factor - Lower Bound "A01040". Prior Year Rate = Prior Year Rate Differential Factor) \* (Effective Coverage If the Effective Coverage Level equals an Differential Factor Level Percent - Floored Effective Coverage Level Percent) \* existing ADM Coverage Level then this will be 20, 9) based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Prior Year Rate existing ADM Coverage Levels then this will be ADM None 9.99999999 Differential Factor based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Internal 9.99 None Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then Floored Effective Coverage this will be the lower ADM Coverage Level. 9.99 None Internal Level Percent If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Reinsurance Year: 2013 Version: Ann

		Record Name: Acreage Record Code: P11				Version: Approved Release Date: 2/28/2013		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion	
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers	
Commodity Code	0015 Canola 0018 Rice	0041 Corn 0043 Popcorn			0051 Grain Sorghum 0067 Dry Peas		0081 Soybeans 0091 Barley	
	Calculations	Field Name	Record Number	<u>Field</u> Number	Field Format	<u>Field</u> Rounding	Rules	
ection 18: Unit Residual							The lookup/interpoloation/extrapolation procedure for 'Unit Residual Factor and Prior Unit Residual Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend.	
Vhen Unit Structure Code	e is equal to Optional Unit, "OU", "I	JA", "UD", or Basic Unit, "BU", use the following calculation  Unit Residual Factor	Internal	esidual Fa	999.999	Residual Factor:  Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure	
		Base Unit Residual Factor	ADM		999.999	None	Base Unit Residual Factor is equal to Unit Residual for Minimum of 1) Maximum availal Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level Edit with ADM Coverage Level Differential, "A01040".	
		Upper Bound Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040".  If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will based on the Effective Coverage Level Percent If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverag Level.  If the Effective Coverage Level Percent is great than the maximum ADM Coverage Level then this will be based on the highest ADM Coverag Level.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
	Calculations	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	Dul.
	Calculations	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	Rules
Unit Residual Factor	Round(Base Unit Residual Factor + (Upper Bound Unit  Residual Factor - Lower Bound Unit Residual Factor) *  (Effective Coverage Level Percent - Floored Effective  Coverage Level Percent) * 20, 3)	Lower Bound Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040".  If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level.  If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level.  If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit' ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equa an existing ADM Coverage Level Percent. If the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels ther this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is grethan the maximum ADM Coverage Level the this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0018 Rice 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** <u>Name</u> Number Number **Format** Rounding Rules The cap value for the Residual Factors is the Round to 3 decimal Prior Year Unit Residual Factor Internal 999.999 MAX(Residual Factor) from all coverage levels places. within the chosen unit structure Base Prior Year Unit Residual Factor is equal to Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) Base Prior Year Unit Residual available Coverage Level less than or equal to ADM 999.999 None Factor Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Prior Year Unit existing ADM Coverage Levels then this will be ADM 999.999 None Residual Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				os Revenue Protect	ion with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
rior Year Unit Residual Factor	Round(Base Prior Year Unit Residual Factor + (Upper Bound Prior Year Unit Residual Factor - Lower Bound Prior Year Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Leve Edit with ADM Coverage Level Differentia "A01040".  If the Effective Coverage Level equals an existing ADM Coverage Level then this will based on the Effective Coverage Level. If the Effective Coverage Levels then this we existing ADM Coverage Levels then this we based on lower ADM Coverage Level. If the Effective Coverage Level is greater to the maximum ADM Coverage Level then the will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. E ADM Coverage Level Differential, "A0104 If the Effective Coverage Level equals an existing ADM Coverage Level then this w the Effective Coverage Level. If the Effective Coverage Level falls betw existing ADM Coverage Levels then this w the lower ADM Coverage Level. If the Effective Coverage Level is greater the maximum ADM Coverage Level then will be the highest ADM Coverage Level.

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Record Name: Acreage

Reinsurance Year: 2013 Version: Approved

Release Date: 2/28/2013 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calculations for Enterprise Unit Residual Factor and Prior Year Enterprise Unit Residual Factor: The cap value for the Residual Factors is the Round to 3 decimal 999.999 MAX(Residual Factor) from all coverage levels Enterprise Unit Residual Factor Internal places. within the chosen unit structure Base Enterprise Unit Residual Factor is equal to Enterprise Unit Residual for Minimum of 1) Base Enterprise Unit Residual Maximum available Coverage Level or; 2) ADM 999.999 None Factor available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls Upper Bound Enterprise Unit ADM 999.999 None between existing ADM Coverage Levels then Residual Factor this will be based on the higher ADM Coverage If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code		0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
	Round(Base Enterprise Unit Residual Factor + (Upper Bound Enterprise Unit Residual Factor - Lower Bound Enterprise Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040".  If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level.  If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level.  If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0018 Rice 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Number Name Number **Format** Rounding Rules Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then Floored Effective Coverage this will be the lower ADM Coverage Level. Internal 9.99 None Level Percent If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. The cap value for the Residual Factors is the Prior Year Enterprise Unit Round to 3 decimal Internal 999.999 MAX(Residual Factor) from all coverage levels Residual Factor places. within the chosen unit structure Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Minimum of 1) Maximum available Base Enterprise Prior Year Unit Coverage Level or; 2) available Coverage Level ADM 999.999 None Residual Factor less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013

Version: Approved

Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between **Upper Bound Prior Year** ADM 999.999 None existing ADM Coverage Levels then this will be Enterprise Unit Residual Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. Round(Base Enterprise Prior Year Unit Residual Factor + Based on the 'lower bound' Coverage Level. (Upper Bound Prior Year Enterprise Unit Residual Factor -Prior Year Enterprise Unit = Lower Bound Prior Year Enterprise Unit Residual Factor) \* Edit with ADM Coverage Level Differential, **Residual Factor** (Effective Coverage Level Percent - Floored Effective "A01040". Coverage Level Percent) \* 20, 3) If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Prior Year existing ADM Coverage Levels then this will be ADM 999,999 None Enterprise Unit Residual Factor based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Internal 9.99 None Percent

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field Field **Calculations** Number Number Rounding Name **Format** Rules Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective Coverage the lower ADM Coverage Level. Internal None 9.99 Level Percent If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage

Reinsurance Year: 2013

Version: Approved

Release Date: 2/28/2013 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0047 Dry Beans 0078 Sunflowers 0021 Cotton **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules When Unit Structure Code is equal to Whole Farm Unit, 'WU', use the following calculations for Whole Farm Unit Residual Factor and Prior Year Whole Farm Unit Residual Factor: The cap value for the Residual Factors is the Round to 3 decimal Whole Farm Unit Residual Internal 999.999 MAX(Residual Factor) from all coverage levels Factor places. within the chosen unit structure Base Whole Farm Unit Residual Factor is equal to Whole Farm Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Base Whole Farm Unit Residual ADM 999.999 None Effective Coverage Level. Edit with ADM Factor Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls Upper Bound Whole Farm Unit between existing ADM Coverage Levels then ADM 999.999 None Residual Factor this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, Round(Base Whole Farm Unit Residual Factor + (Upper "A01040". Bound Whole Farm Unit Residual Factor - Lower Bound If the Effective Coverage Level equals an Whole Farm Unit Residual = Whole Farm Unit Residual Factor) \* (Effective Coverage existing ADM Coverage Level then this will be Factor Level Percent - Floored Effective Coverage Level Percent) \* based on the Effective Coverage Level. 20, 3) If the Effective Coverage Level falls between Lower Bound Whole Farm Unit ADM existing ADM Coverage Levels then this will be 999.999 None Residual Factor based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Internal 9.99 None Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then Floored Effective Coverage 9.99 Internal None this will be the lower ADM Coverage Level. Level Percent If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. The cap value for the Residual Factors is the Prior Year Whole Farm Unit Round to 3 decimal Internal 999.999 MAX(Residual Factor) from all coverage levels Residual Factor places. within the chosen unit structure

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field Field Record Field **Calculations** Name Number Number **Format** Rounding Rules Base Whole Farm Base Prior Year Unit Residual Factor is equal to Whole Farm Base Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Base Whole Farm Base Prior ADM 999.999 None Coverage Level less than or equal to Effective Year Unit Residual Factor Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Prior Year Whole existing ADM Coverage Levels then this will be ADM 999.999 None Farm Unit Residual Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. Based on the 'lower bound' Coverage Level. Round(Base Whole Farm Prior Year Unit Residual Factor + Edit with ADM Coverage Level Differential, (Upper Bound Prior Year Whole Farm Unit Residual Factor -Prior Year Whole Farm = Lower Bound Prior Year Whole Farm Unit Residual Factor) \* "A01040". Unit Residual Factor (Effective Coverage Level Percent - Floored Effective If the Effective Coverage Level equals an existing ADM Coverage Level then this will be Coverage Level Percent) \* 20, 3) based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Prior Year Whole existing ADM Coverage Levels then this will be ADM 999.999 None Farm Unit Residual Factor based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

Record Name: Acreage

Reinsurance Year: 2013

Version: Approved

Record Code: P11 Release Date: 2/28/2013 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field Field **Calculations** Number Number Rounding Rules Name **Format** Effective Coverage Level Internal 9.99 None Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective Coverage Internal 9.99 None the lower ADM Coverage Level. Level Percent If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	n 03 Revenue Protection with Harvest Price Exclusion				with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola	0021 Cotton 0041 Corn			0047 Dry Beans 0051 Grain Sorghum		0078 Sunflowers 0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>

Section 19: Unit Discount Calculation

The lookup/interpoloation/extrapolation procedure for 'Optional Unit Discount Factor, Basic Unit Discount Factor, and Enterprise Unit Discount Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend.

When Unit Structure Code is equal to Optional Unit, "OU", "UA", or "UD", use the following calculation for Unit Structure Discount Factor:

Unit Structure Discount Factor	Internal	9.99999999	Round to 4 8 decimal places.	Capped at 1.0
Base Coverage Level Percent Optional Unit Discount Factor	ADM	9.99999999	None	Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Upper Bound Coverage Level Percent Optional Unit Discount Factor	ADM	9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Round(Base Coverage Level Percent Optional Unit Discount Based on the 'lower bound' Coverage Level. Factor + (Upper Bound Coverage Level Percent Optional Edit with ADM Coverage Level Differential, Unit Structure Discount = Unit Discount Factor - Lower Bound Coverage Level Percent "A01040". Optional Unit Discount Factor) \* (Effective Coverage Level If the Effective Coverage Level equals an Percent - Floored Effective Coverage Level Percent) \* 20, 4) existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Coverage Level existing ADM Coverage Levels then this will be Percent Optional Unit Discount ADM None based on the lower ADM Coverage Level. Factor If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level 9.99 None Internal Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective Coverage Internal 9.99 None the lower ADM Coverage Level. Level Percent If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules When Unit Structure Code is equal to Basic Unit, 'BU', use the following calculation for Unit Structure Discount Factor: Round to 4 decimal Unit Structure Discount Factor Internal 9.99999999 Capped at 1.0 places. Base Coverage Level Percent Basic Unit Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Base Coverage Level Percent ADM 9.99999999 None Level or; 2) available Coverage Level less than or Basic Unit Discount Factor equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. Upper Bound Coverage Level If the Effective Coverage Level falls between Percent Basic Unit Discount ADM 9.99999999 None existing ADM Coverage Levels then this will be Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Round(Base Coverage Level Percent Basic Unit Discount Edit with ADM Coverage Level Differential, Factor + (Upper Bound Coverage Level Percent Basic Unit Unit Structure Discount "A01040". = Discount Factor - Lower Bound Coverage Level Percent Factor If the Effective Coverage Level equals an Basic Unit Discount Factor) \* (Effective Coverage Level existing ADM Coverage Level then this will be Percent - Floored Effective Coverage Level Percent) \* 20, 4) based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Coverage Level existing ADM Coverage Levels then this will be Percent Basic Unit Discount ADM None based on the lower ADM Coverage Level. Factor If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level 9.99 Internal None Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective Coverage 9.99 Internal None the lower ADM Coverage Level. Level Percent If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage
Record Code: P11

Reinsurance Year: 2013

Version: Approved

Release Date: 2/28/2013 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0047 Dry Beans 0078 Sunflowers 0021 Cotton **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calculation for Unit Structure Discount Factor: Round to 4 8 decimal Unit Structure Discount Factor Internal 9.99999999 Capped at 1.0 places. Base Coverage Level Percent Enterprise Unit Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum Base Coverage Level Percent ADM 9.99999999 None available Coverage Level or; 2) available Enterprise Unit Discount Factor Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. Upper Bound Coverage Level If the Effective Coverage Level falls between Percent Enterprise Unit ADM 9.99999999 None existing ADM Coverage Levels then this will be Discount Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. Round(Base Coverage Level Percent Enterprise Unit Based on the 'lower bound' Coverage Level. Discount Factor + (Upper Bound Coverage Level Percent Edit with ADM Coverage Level Differential, Unit Structure Discount Enterprise Unit Discount Factor - Lower Bound Coverage "A01040". Factor Level Percent Enterprise Unit Discount Factor) \* (Effective If the Effective Coverage Level equals an Coverage Level Percent - Floored Effective Coverage Level existing ADM Coverage Level then this will be Percent) \* 20, 4) based on the Effective Coverage Level. Lower Bound Coverage Level If the Effective Coverage Level falls between ADM Percent Enterprise Unit None existing ADM Coverage Levels then this will be Discount Factor based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

Record Name: Acreage

Reinsurance Year: 2013

Version: Approved

Release Pate: 2/29/2012

Record Code: P11 Release Date: 2/28/2013 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0081 Soybeans 0018 Rice 0043 Popcorn 0067 Dry Peas 0091 Barley Field Record Field Field Field **Calculations** Number Number Rounding Rules Name **Format** Effective Coverage Level Internal 9.99 None Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective Coverage the lower ADM Coverage Level. Internal 9.99 None Level Percent If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage

Reinsurance Year: 2013 Version: Approved

	Record Name: Record Code:	=			Version Release Date	: Approved e: 2/28/2013	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	tion with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn Field	Record	Field	0067 Dry Peas Field	Field	0091 Barley
	<u>Calculations</u>	Name	Number		<u>Format</u>	Rounding	<u>Rules</u>
Written Agreement Rate In	nformation						
Section 20: Written Agree	ment Rate Calculation						The following information will be used only when an applicable county program does not exist in the county and written agreement (WA) specifies a Multiplicative Rate, Add-on Rate, or Designated Rate. This would include situations where a written agreement (WA) for a type or practice not contained in the Actuarial materials.
When WA specifies a Mult	iplicative Rate:						
		Reference Rate	Internal		9.9999	None	
		Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
Reference Rate	= (Round(Reference Rate + Fixed Rate) * Written Agreement	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	= Multiplicative Rate Adjustment,3) - Fixed Rate	Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None	
		Prior Year Reference Rate	Internal		9.9999	None	
		Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
Prior Year Reference Rate	= (Round(Reference Rate + Fixed Rate) * Written Agreement	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Multiplicative Rate Adjustment,3) - Fixed Rate	Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None	
When WA specifies a Add-	on Rate:	1	1				
		Fixed Rate	Internal		9.9999	None	
Fixed Rate	= Fixed Rate + Written Agreement Add-on Rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	-	Written Agreement Add-on Rate	WA		9.9999	None	
		Prior Year Fixed Rate	Internal		9.9999	None	
Prior Year Fixed Rate	= Fixed Rate + Written Agreement Add-on Rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
		Written Agreement Add-on Rate	WA		9.9999	None	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0018 Rice 0043 Popcorn 0091 Barley Field Record Field Field Field **Calculations** Number Rounding Rules Name Number **Format** When WA specifies a Designed Rate: Reference Rate = zero (0) Reference Rate Internal 9.9999 None Fixed Rate Internal 9.9999 None Fixed Rate = Designated Rate Designated Rate WA 9.9999 None Prior Year Reference Rate = zero (0) Prior Year Reference Rate Internal 9.9999 None Prior Year Fixed Rate 9.9999 None Internal Prior Year Fixed Rate = Designated Rate Written Agreement Designated WA 9.9999 None The following information will be used when Section 21: Written Agreement Sub County Rate Calculation written agreement (WA) modifies a Sub County Rate (High Risk or Map Rate). Replace Sub County Rate if Written Agreement Written Agreement Sub County Sub County Rate is lower. Set Sub County Rate Sub County Rate = Written Agreement Sub County Rate WA 9.9999 None Rate to zero if Written Agreement removes Sub County Rate.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013

Version: Approved

Poloace Pate: 2/28/2012

	Record Code	e: P11	Release Date: 2/28/2013							
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion			
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley			
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules			
Downed Rice Endorsement	t (DRE) Option 'DC'						CAT does not apply to Downed Rice (DRE). Only Unit Structure Codes 'BU and OU' apply regardless of the base Rice selection. Price Election Percent for base Rice will apply to DRE. Subsidy Level will be 38% for DRE regardless of the base Rice Unit Structure or Coverage Level. Insured Share can be different for DRE than base Rice. Insured Share will be 100%. DRE coverage is not available for high-risk CAT acreage if excluded from additional coverage for Base Rice.			
Section 22: Liability Calcul	ation									
		Premium Liability Amount	Internal		999999999	Round to whole number.				
Premium Liability Amount	_ Dollar Amount of Insurance * Reported Acreage * Insured	Dollar Amount of Insurance	ADM		99999	None	Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.			
Tremain Elability / illicant	Share Percent * Price Election Percent	Reported Acreage	P11	51	99999999.99	None				
		Insured Share Percent	P11	46	9.9999	None	DRE insured share will always be 100% without regards to base Rice.			
		Price Election Percent	ICE		9.9999	None	From base Rice P14 record.			
		Liability Amount	P11	93	999999999	Round to whole number.				
Lightlibe America	_ Dollar Amount of Insurance * Reported Acreage * Insured	Dollar Amount of Insurance	ADM		99999	None	Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.			
Liability Amount	Share Percent * Price Election Percent	Reported Acreage	P11	51	999999.99	None				
		Insured Share Percent	P11	46	9.9999	None	DRE insured share will always be 100% without			
		madred share refeelie	111	40	3.3333		regards to base Rice.			

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2013 Version: Approved Release Date: 2/28/2013

**Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0078 Sunflowers **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0081 Soybeans 0018 Rice 0067 Dry Peas 0043 Popcorn 0091 Barley Field Record Field Field <u>Field</u> **Calculations** Number Rules Name Number **Format** Rounding Section 23: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Round to whole Preliminary Total Premium Internal 999999999 number. Preliminary Total Premium = Premium Liability Amount \* Premium Rate Edit with ADM Option Rate, "A01060", rate with Premium Rate ADM None insurance option = 'DC'. Round to whole Total Premium Amount = Preliminary Total Premium Total Premium Amount P11 94 999999999 number. Round to whole Subsidy Amount P11 92 999999999 number. Subsidy Amount = Total Premium Amount \* Subsidy Percent Edit with ADM Subsidy Percent, "A00070". Will Subsidy Percent 9.999 None ADM always be 38% for DRE. Producer Premium Amount = Total Premium Amount - Subsidy Amount Round to whole **Producer Premium Amount** P11 95 999999999 number.

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